"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DERKACHEV, A.A.

Deformation calculation of frame systems composed of thin-walled elements. Iz. Otd. geol.-khim. i tekl. nauk AN Tadzh. SSR no.1:13-24 '59. (MIRA 14:8)

1. Institut seysmostoykogo stroitel'stva i seysmologii AN Tadzhikskoy SSR.
(Structural frames) (Deformations (Mechanics))

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32521
S/044/61/000/011/044/049
C111/C444

1327

16.4100

AUTHOR: Derkachev, A. A.

TITLE: The application of the method of quickest descent for the calculation of thin-walled bars with variables stiffnes

PERIODICAL: Referativnyy zhurnal, Matematika, no. 11, 1961, 40, abstract 11V227. (Dokl. AN Tadzh SSR, 1959, 2, no. 3, 3-6)

TEXT: The differential equation for the torsion of a thin-walled bar with open cross section and variable stiffness

$$E\left[I_{\omega}(z)\theta''\right]' + G\left[I_k(z)\theta'\right]' = m(z)$$

is solved by the method of quickest descent according to L. V. Kantorovich (Uspekhi matem. nauk, 1948, 3, vyp. 6). Here $I_{\omega}(z)$ is the variable sectorial stiffness, $I_k(z)$ is the stiffness merely of the torsion, m_z is a function, describing the distribution of the twisting load. In dependence on the position or fixation at the ends z=0 and z=1 the searched function $\theta(z)$ satisfies several boundary conditions.
[Abstracter's note: Complete translation.]

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"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

S/169/62/000/003/007/098
D228/D301

AUTHOR: Derkachev, A. A.

TITLE: Determining the calculated values of seismic forces

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 3, 1962, 13-14, abstract 3A121 (Tr. In-t seysmostoyk. str-va i seysmol. AN TadzhSSR, 8, 1960, 4-36)

TEXT: The representation of the seismic load on a structure, whose calculated scheme is taken to be a console embedded in the basement, as a series with respect to the forms of vibrations is incorrect, despite the fact that it is taken as the basis of standards СН-8 (SN-8) to 57. The elasticities arising in a structure are neutralized by two systems of forces: by the inertial load of the relative movement of the console's points and by the inertias of the absolute movement of the structure together with the ground. The magnitude of the calculated seismic loads depends on the coefficients K_c and ß(T), whose customary values have not been adequately sub-

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Determining the calculated ...

stantiated. The seismic load formula, proposed by I. L. Korchinskiy, takes into account the inertias of relative movement, but it absolutely disregards the inertias of the absolute movement of a structure as a rigid whole. The mistaken position of I. L. Korchinskiy about the proportionality of the accelerations of different pivotal points to the ordinates of the forms of the vibrations at the same points is also adopted in A. G. Nazarov's method. On the basis of the concept introduced by S. V. Medvedev about action spectra, the seismic load at a certain point of a structure, bearing n centered masses, can be represented as the sum of the loads with respect to different tones of vibration. There are no grounds for reckoning that this expression coincides with the true value of the seismic load at a certain moment of time. Any method devoid of these errors should be founded on the use of a formula, constructed on the basis of the following assumptions: 1) The inertias are proportional to the flexures according to the main form of the free oscillations; 2) the forces of inelastic resistance at the moment $t = t_1$ are negligibly small; 3) the accelerations of the relative movement and the

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D228/D301

Determining the calculated ...

ground movement can be considered as independent quantities, which may be added algebraically; and 4) the vibrations of structures arise from the flexures, relative to the basement and the rotation of the whole structure, together with the basement around the horizontal axis, situated above ground level, by virtue of which the structure's basement shifts in relation to the ground, when the relative movement of the basement and the ground movement may also be subject to the principle of superposition. [Abstracter's note: Complete translation.]

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"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

S/169/62/000/002/023/072
D228/D301

AUTHORS: Derkachev, A. A. and Bibarsova, D. G.

TITLE: The question of the genesis of vertical seismic forces during horizontal ground oscillations

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 2, 1962, 20, abstract 2A141 (Tr. In-ta seysmostoyk. str-va i seysmol., AN TadzhSSR, 8, 1960, 95-101)

TEXT: During a given basement shift the forced oscillations of a frame system with distributed masses can be represented by means of a system of differential equations in individual derivatives whose number equals the number of frame elements. In addition to this one equation in a vectorial form may be considered in place of the system of equations. Any vector, being a solution of this equation, can be resolved into a series for the vectors which are solutions of the correspondingly similar equation. In view of the orthogonal nature of the solutions of a uniform equation, the coefficients of resolution are determined from the system of independent

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The question of the ...

differential 2nd-order equations in respect of the time. In the example of the simplest P-shaped frame having a singly-centered mass in the middle of the span, with both rigid and hinged joints, it is shown that the influence of the vertical weight displacement is negligible for frames with rigid interties. For frames with flexible interties this influence is substantial and should be taken into account in the calculation. [Abstracter's note: Complete translation.]

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"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DERKACHEV, A.A.

Bilateral evaluation of the critical value for the parameter of longitudinal loading in designing frames for strength. Dokl.AN Tadzh.SSR 2 no.2:3-8 '59. (MIRA 13:4)

1. Institut seysmostoykogo stroitel'stva i seysmologii. Predstavleno akademikom AN Tadzhikskoy SSR S.U.Umarovym.
(Structural frames)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DERKACHEV, A.A.

Using the fastest release method in designing thin-walled rods with variable rigidity. Dokl.AN Tadzh.SSR 2 no.3: 3-6 '59. (MIRA 13:4)

1. Institut seysmostoykogo stroitel'stva i seysmologii AN Tadzhikskoy SSR. Predstavleno akademikom AN Tadzhikskoy SSR S.U.Umarovym.
(Elastic rods and wires)

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DERKACHEV, A.A.

report presented at the 1st All-Union Congress of Theoretical and Applied Mechanics, Moscow, 27 Jan - 3 Feb '60.

102. J. Dvorak (Prague): The state of stress and deformation of the turbine blades.

103. V. M. Dety (Kharkov): On some new forms of the general solution of the three-dimensional problem of the theory of elasticity expressed in harmonic functions.

104. A. A. Derkachev (Stalinabad): Generalization of the method of steepest descent in structural mechanics.

105. B. V. Deriagin (Moscow), S. V. Nerpin (Leningrad): Surface phenomena in the mechanics of clays.

106. A. E. Desov (Moscow): Experimental data concerning the propagation of vibrations of different frequencies in concrete mixtures.

107. G. Iu. Dzhanelidze (Leningrad): Almansi's problem.

108. M. I. Dlugach (Kiev): A finite difference analysis of cylindrical shells with rectangular holes.

109. M. I. Dlugach (Kiev): Generalization of Mohr's method of determining the displacements in problems of the theory of elasticity.

110. M. D. Dolberg (Kharkov): The construction of solutions of the equations of structural mechanics by means of special uniformly convergent series.

111. L. G. Drapkin (Leningrad): A method of investigating the state of stress and strain and the slip lines in anisotropic multilayer metals.

112. A. V. Diatlov (Dnepropetrovsk): The stability of an obliquely bent beam.

113. L. I. Diatlovitskii, L. B. Rabinovich (Kiev): A problem concerning elastic bodies whose configuration changes in the course of loading, with application to the erection of structures.

114. F. D. Bockinov (Leningrad): On the shear strength of structural rock foundations.

115. F. D. Bockinov (Leningrad): On friction in sandy soils and their shear strength.

116. K. E. Egorov (Moscow): The deformation of the ground under an annular foundation.

117. G. S. Eliseevskii (Moscow): On stresses and strains of thin-walled rods of variable cross section at normal and elevated temperatures.

118. Zh. S. Erzhanov (Dnepropetrovsk): Determination of the pressure on a tunnel facing taking account of the hereditary creep of soils.

119. Zh. S. Erzhanov (Dnepropetrovsk): The integral operator method of determining the creep characteristics of soils from observations in situ.

120. E. P. Ershov (Gorki): The elastic-plastic bending of a bar.

121. A. M. Zhukov (Moscow): Elastic properties of a plastically deformed metals under combined loading.

122. P. A. Zhuravlev, A. F. Zakharevich, N. P. Nerenov (Leningrad): Application of the method of characteristics to the determination of the tension in the cable of a mine elevator.

123. M. A. Zadoian (Erevan): On the propagation of plastic zones in a beam under impulsive loading.

124. L. I. Zaitsev (Moscow): On the surface-head-wave.

125. V. I. Zvezdkov, Sh. N. Kats (Leningrad): An experimental study of creep-rupture characteristics of tubes under combined stresses.

126. N. V. Zvolinskii (Moscow): The propagation of an elastic wave due to an underground explosion.

127. A. F. Zolenin (Moscow): On the state of stress in compression and its effect on the construction of Mohr's circles.

128. V. K. Zilova, Ia. B. Fridman (Moscow): The laws of deformation and rupture kinetics.

129. P. L. Ivanov (Leningrad): Flow of water-saturated soils under dynamic loading

130. V. S. Ivanova (Moscow): The hypothesis of energetic similarity in fatigue fracture and the melting of metals.

131. D. D. Ivlev (Voronezh): On the anisotropy of elastic and plastic bodies.

132. I. N. Izotov, Iu. I Iagi (Leningrad): Plastic tension and torsion of thin-walled nickel tubes that have become anisotropic through prior plastic deformation.

133. Iu. A. Ilenko, B. N. Sokolov (Moscow): Investigation of elastic strains and vibrations in aircraft structures by means of electronic computers.

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DERKACHEV, A.A.; SUKHAREVSKIY, B.P.

Deformation calculation of thin-walled rods for transverse load. Trudy Inst. seism. stroi. i seism. 9:5-15 '61. (MIRA 15:11)

(Elastic rods and wires)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DERKACHEV, A.A.; BIBARSOVA, D.G.; BEGIYEV, B.B.

Solution of some problems of the dynamic stability of thin-walled rods. Trudy Inst. seism. stroi. i seism. 9:119-136 '61. (MIRA 15:11)
(Elastic rods and wires)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

PIKOVSKIY, A.A.; DERKACHEV, A.A.

Dynamic theory of stability. Trudy Inst. seism. stroi. i seism. 11:4-33 '62. (MIRA 16:5)
(Stability)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DERKACHEV, A.A.

A.F.Smirnov's matrix method. Trudy Inst. seism. stroi. i seism. 11:34-55 '62. (MIRA 16:5)
(Matrices) (Stability) (Vibration)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DERKACHEV, Anatoliy Andreyevich; MIKHAYLOV, L.G., otv. red.

[General theory of the method of a majorante elastic system] Obshchaia teoriia metoda mazhorantnoi uprugoi sistemy. Dushanbe, AN Tadzhik SSR, 1963. 75 p.
(MIRA 17:10)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DERKACHEV, A. A.

Method of calculating seismic effects using standard accelerograms. Biul. Sov. po seism. no.14:69-76 '63.
(MIRA 16:4)

(Earthquakes and building)

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"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

107-57-1-33/60

AUTHOR: Derkachev, B. (Kinel')

TITLE: Mast Without Guys. Experience Exchange (Machta bez ottyazhek. Obmen opytom)

PERIODICAL: Radio, 1957, Nr 1, p 27 (USSR)

ABSTRACT: A short description of a do-it-yourself no-guy mast that can be turned within a 90-degree angle is presented. The mast consists of steel pipes and wooden members. There are 2 figures in the article.

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AZOS, S.; ARKF'YEV, A.; ARTAMONOV, I.; BABINA, I.; BERGOVSKIY, V.; BLOZHKO, V.; BRAVERMAN, A.; BYKHOVSKIY, Yu.; VINOGRADOVA, M.; GALANKINA, Ye.; GIL'DENGERSH, F.; GLOBA, T.; GREYVER, N.; GORDON, G.; GUL'DIN, I.; GULYAYEVA, Ye.; GUSHCHINA, I.; DAVYDOVSKAYA, Ye.; DAMSKAYA, G.; DERKACHEV, D.; YEVDOKIMOVA, A.; YEGUNOV, V.; ZABELYSHINSKIY, I.; ZAYDENBERG, B.; AZMOSHNIKOV, I.; ITKINA, S.; KARCHEVSKIY, V.; KLUSHIN, D.; KUVINOV, Ye.; KUZNETSOVA, G.; KURSHAKOV, I.; LAKERNIK, M.; LEYZEROVICH, G.; LISOVSKIY, D.; LOSKUTOV, F.; MALEVSKIY, Yu.; MASLYANITSKIY, I.; MAYANTS, A.; MILLER, L.; MITROFANOV, S.; MIKHAYLOV, A.; MYAKINENKOV, I.; NIKITINA, I.; NOVIN, R.; OGNEV, D.; OL'KHOV, N.; OSIPOVA, T.; OSTRONOV, M.; PAKHOMOVA, G.; PETKER, S.; PLAKSIN, I.; PLETENEVA, N.; POPOV, V.; PRESS, Yu.; PROKOF'YEVA, Ye.; PUCHKOV, S.; REZKOVA, F.; RUMYANTSEV, M.; SAKHAROV, I.; SOBOL', S.; SPIVAKOV, Ya.; STRIGIN, I.; SPIRIDONOVA, V.; TIMKO, Ya.; TITOV, S.; TROITSKIY, A.; TOLOKONNIKOV, K.; TROFIMOVA, A.; FEDOROV, V.; CHIZHIKOV, D.; SHEYN, Ya.; YUKHTANOV, D.

Roman Lazarevich Veller; an obituary. TSvet. met. 31 no.5:78-79 My '58. (MIRA 11:6)
(Veller, Roman Lazarevich, 1897-1958)

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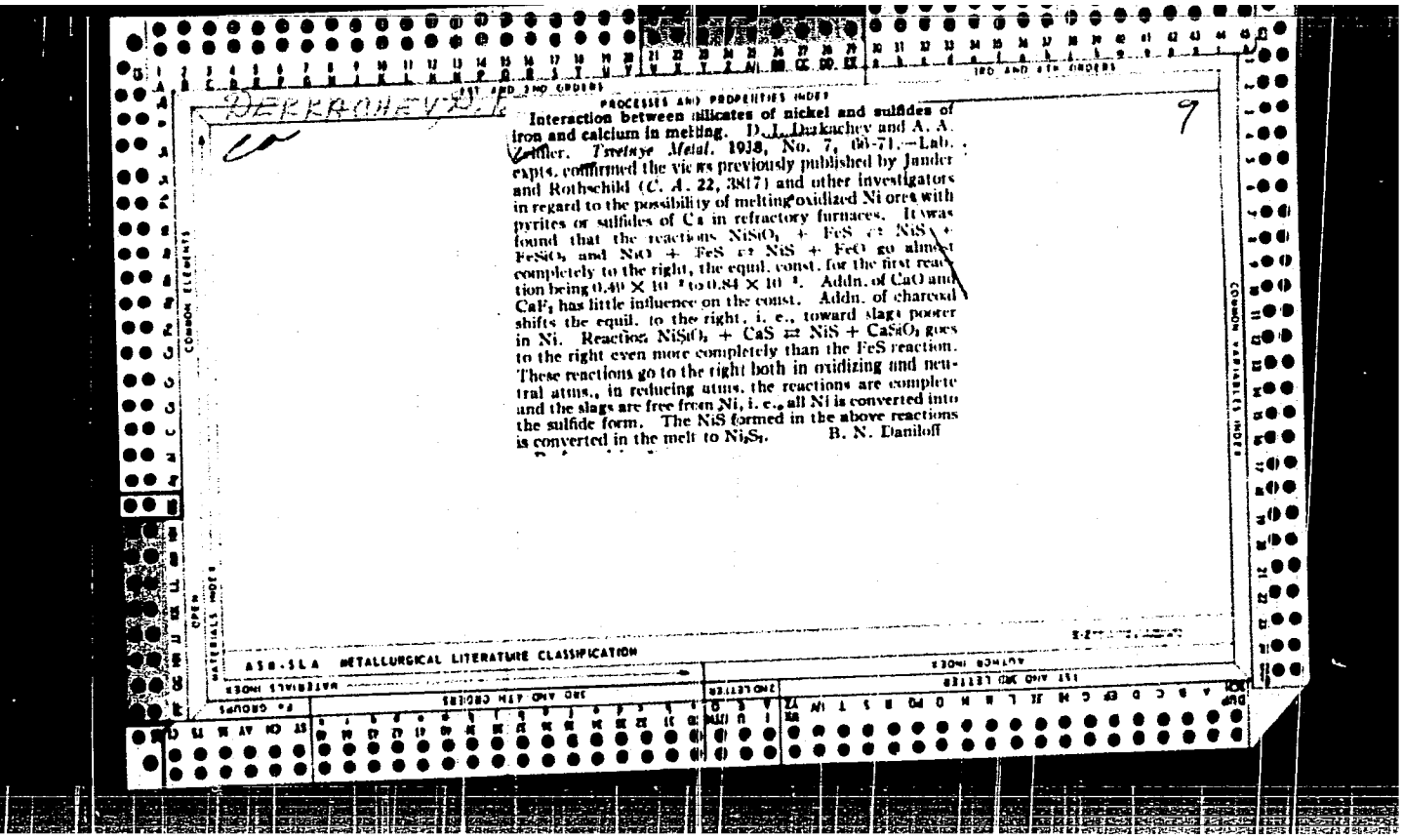

DERKACHEV, D.I.

PROCESSES AND PROPERTIES INDEX

Interaction between silicates of nickel and sulfides of iron and calcium in melting. D. I. Derkachev and A. A. Zeitlier. *Tsvetnye Metal.* 1938, No. 7, 65-71.—Lab. expts. confirmed the views previously published by Jander and Rothschild (*C. A.* 22, 3817) and other investigators in regard to the possibility of melting oxidized Ni ores with pyrites or sulfides of Ca in refractory furnaces. It was found that the reactions $NiSiO_3 + FeS \rightleftarrows NiS + FeSiO_3$ and $NiO + FeS \rightleftarrows NiS + FeO$ go almost completely to the right, the equil. const. for the first reaction being 0.40×10^{-3} to 0.84×10^{-3}. Addn. of CaO and CaF_2 has little influence on the const. Addn. of charcoal shifts the equil. to the right, i. e., toward slags poorer in Ni. Reaction $NiSiO_3 + CaS \rightleftarrows NiS + CaSiO_3$ goes to the right even more completely than the FeS reaction. These reactions go to the right both in oxidizing and neutral atms., in reducing atms. the reactions are complete and the slags are free from Ni, i. e., all Ni is converted into the sulfide form. The NiS formed in the above reactions is converted in the melt to Ni_3S_2. B. N. Daniloff

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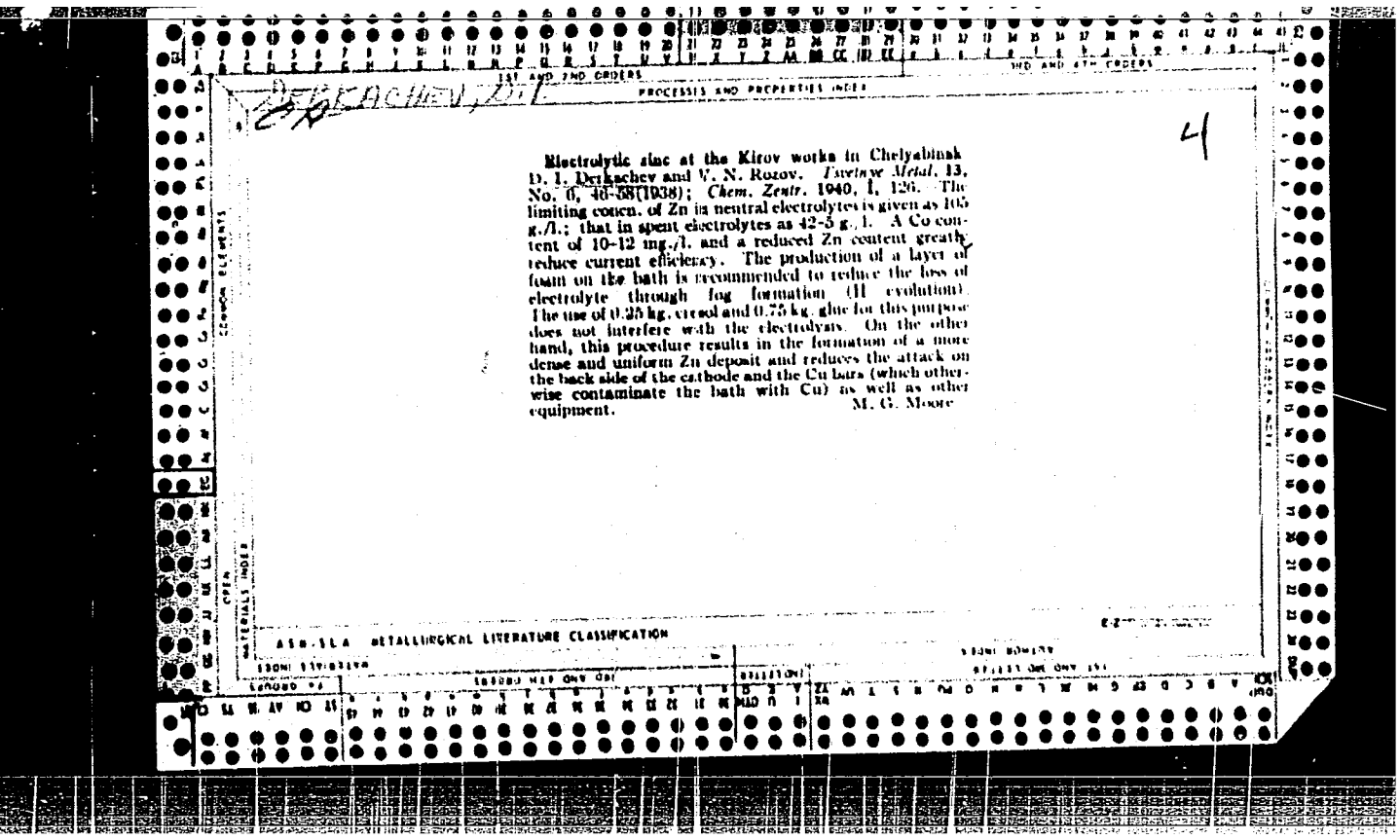

DERKACHEV, D.I.

4

Electrolytic zinc at the Kirov works in Chelyabinsk. D. I. Derkachev and V. N. Rozov. *Tsvetnye Metal.* 13, No. 6, 46-58(1938); *Chem. Zentr.* 1940, I, 126. The limiting concn. of Zn in neutral electrolytes is given as 105 g./l.; that in spent electrolytes as 42-5 g./l. A Co content of 10-12 mg./l. and a reduced Zn content greatly reduce current efficiency. The production of a layer of foam on the bath is recommended to reduce the loss of electrolyte through fog formation (H evolution). The use of 0.25 kg. cresol and 0.75 kg. glue for this purpose does not interfere with the electrolysis. On the other hand, this procedure results in the formation of a more dense and uniform Zn deposit and reduces the attack on the back side of the cathode and the Cu bars (which otherwise contaminate the bath with Cu) as well as other equipment.

M. G. Moore

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

MANOYLOV, S.Ye.; DERKACHEV, E.F.

Effect of X rays on cytochrome C in vitro. Vop. med. khim. 11 no.1: 95-96 Ja-F '65. (MIRA 18:10)

1. TSentral'nyy nauchno-issledovatel'skiy rentgeno-radiologicheskiy institut Ministerstva zdravookhraneniya SSSR i Leningradskiy khimiko-farmatsevticheskiy institut Ministerstva zdravookhraneniya RSFSR.

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DERKACHEV, V.I.; PRIKHOD'KO, N.M.; TIKHONOV, A.A.

Double separation and reclamation of spent molding sand.
Lit. proizv. no.1:38-39 Ja '65.
(MIRA 18:3)

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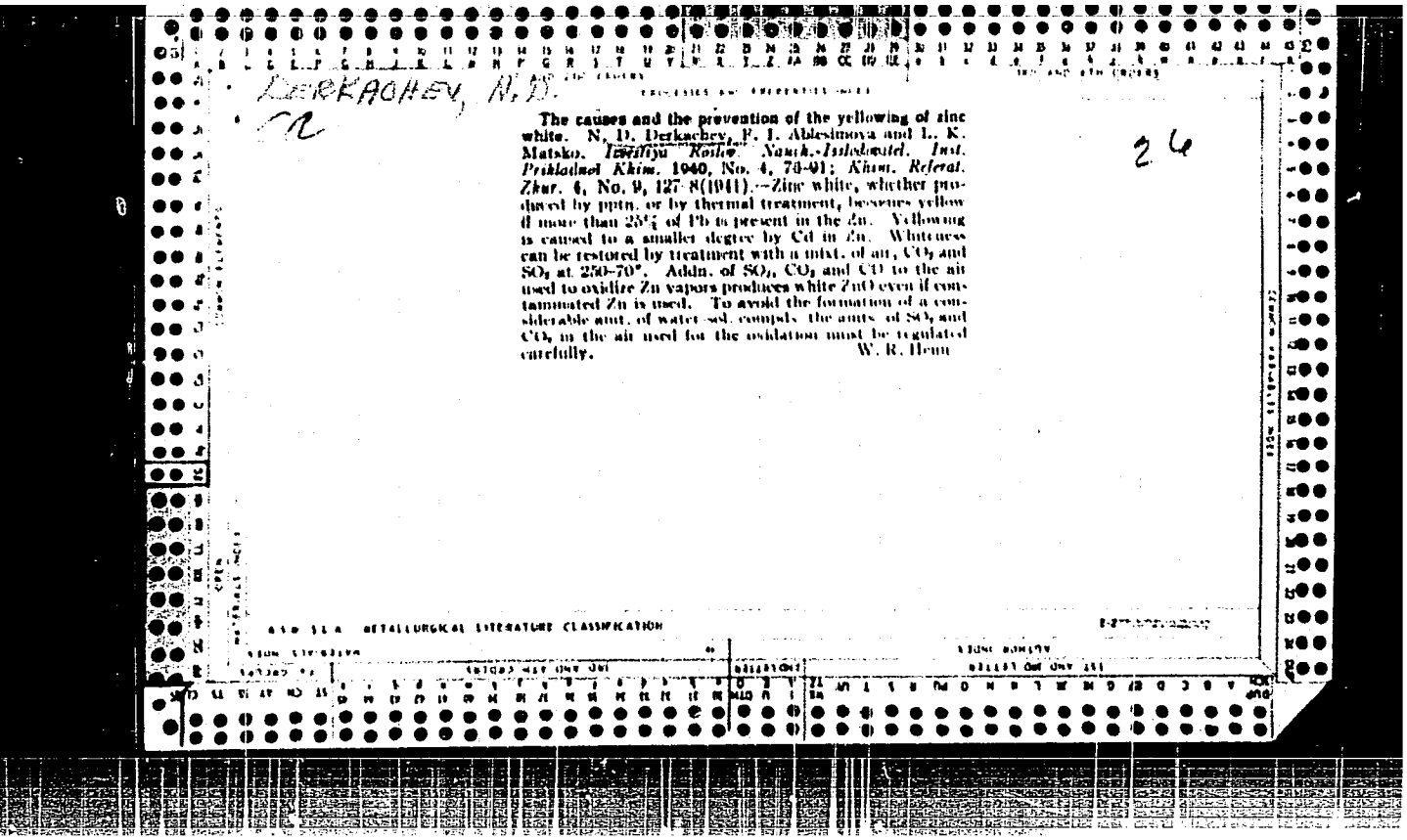

DERKACHEV, N. D.

CR

24

The causes and the prevention of the yellowing of zinc white. N. D. Derkachev, P. I. Ablesimova and L. K. Matsko. *Trudy Ross. Nauch.-Issledovatel. Inst. Prikladnoi Khim.* 1940, No. 4, 70-91; *Khim. Referat. Zhur.* 4, No. 9, 127-8(1941).—Zinc white, whether produced by pptn. or by thermal treatment, becomes yellow if more than 25% of Pb is present in the Zn. Yellowing is caused to a smaller degree by Cd in Zn. Whiteness can be restored by treatment with a mixt. of air, CO_2 and SO_2 at 250–70°. Addn. of SO_2, CO_2 and Cl to the air used to oxidize Zn vapors produces white ZnO even if contaminated Zn is used. To avoid the formation of a considerable amt. of water-sol. compds. the amts. of SO_2 and CO_2 in the air used for the oxidation must be regulated carefully. W. R. Henn

U.S.S.R. METALLURGICAL LITERATURE CLASSIFICATION

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"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DERGACHEV, V.

Gas meters for apartments. Zhil.-kom. khoz. 10 no.11:9-10 '60.
(MIRA 13:11)
(Gas meters)

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DOLGOPOLOV, N.N., kand.tekhn.nauk; DERKACHEV, V.A., inzh.

Electric separation of the waste material from dressing asbestos ores. Stroi. mat. 8 no.4:19-22 Ap '62. (MIRA 15:8)
(Separators (Machines)) (Asbestos)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

KRASNOVSKIY, G.A.; DERKACHEV, V.A.

Complex preparation of fine-grained shale with the use of external beneficiation. Energotekh. ispol'. topl. no.2:160-170 '62.
(MIRA 16:5)

(Oil shales)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

PRIKHOD'KO, N.M.; SAVOSTIN, V.P.; DERKACHEV, V.I.

Casting gear wheels in half-chills. Lit. proizv. no.6:39 Je '62.
(MIRA 15:6)
(Die casting)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

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DERKACHEV, V.I.; TIKHONOV, A.I.

Vertically-closed conveyor for casting rollers in chill molds.
Lit. proizv. no.6:39 Je '62. (MIRA 15:6)
(Foundries--Equipment and supplies)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

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PRIKHODKO, N.M.; SAVOSTIN, V.P.; DERKACHEV, V.I.

Semichill casting of gear wheels. Ratsionalizatsiia no.12: 21 '62.

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DERKACHEV, V.I., inzh.; FRIKHOD'KO, V.M., inzh.; TIKHONOV, A.A., inzh.

Double separation and distribution of used sand. Mashinostroenie no.2:49-50 Mr-Ap '65. (MIRA 18:6)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

87777
S/063/60/005/006/012/014
A051/A026

5.3700 2209, 1164, 1273

AUTHORS: Razuvayev, G.A., Vyazankin, N.S., Dergunov, Yu. I., Pinchuk, N.M.

TITLE: The Reaction Between Hexaethyldistannane and Organic Haloid Derivatives

PERIODICAL: Zhurnal Vsesoyuznogo Khimicheskogo Obshchestva im. D.I. Mendeleyeva, 1960, Vol. 5, No. 6, pp. 707-708

TEXT: The authors have investigated the reactions of hexaethyldistannane with certain organic haloid derivatives in evacuated ampules at elevated temperatures. It has been shown on the example of bromine- and iodine-benzene, that halogene, bound to the benzene ring, is not detached by the hexaethyldistannane, when heated to 180-190°C for a period of 20-30 hours. In all other cases it was found that the rate and direction of the reaction depends on the nature of the haloid derivative. The hexaethyldistannane was found to react easiest with triphenylchloromethane (4.5 hrs at 100°C) and with n-toluenesulfochloride (13 hrs at 100°C). In the first case the reaction takes place with the formation of triethylstannous chloride (yield 61.7% of the theoretical), and triphenylmethyl radicals. The presence of the latter was proven by the electronic paramagnetic resonance method. Triethyl stannous chloride (yield

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87777

S/063/60/005/006/012/014
A051/A026

The Reaction Between Hexaethyldistannane and Organic Haloid Derivatives

90.8%) and n-tolyltriethylstannylsulfon were formed from the reaction with the n-toluenesulfochloride. Yield of the second-18.7%, melting point 91-92°C (from alcohol). The structure of the sulfon has been verified by a counter synthesis, carried out in a medium of absolute alcohol (for 3 hours, at 78°C) with a yield of 44.2% of the theoretical:

$n\text{-}CH_3C_6H_4SO_2Na + (C_2H_5)_3SnCl \longrightarrow NaCl + n\text{-}CH_3C_6H_4SO_2Sn(C_2H_5)_3$ (1).

Under more severe conditions (4 hours at 190-200°C) the hexaethyldistannane reacts with the benzene chloride. The formation of dibenzene (yield 35.4%) in addition to the triethylstannous chloride (yield 73.4%, proves that a reaction with a homologous separation of the σ - links takes place. It is assumed that this type of decomposition of the bonds is characteristic for the $(C_2H_5)Sn_2$ reaction with β-bromoethylbenzene, 1.4-dibromobutane, and 1.5-dibromopentane also, taking place at 200-210°C. In all these cases it was found that, in addition to the main process of triethylstannous bromide (yield 70.5, 72.5 and 82.4%, respectively) formation, the disproportionation of the hexaethyldistannane takes place also: $2(C_2H_5)_6Sn_2 \longrightarrow 3(C_2H_5)_4Sn + Sn$. (2). It is further assumed that reaction (2) is catalyzed by triethylstannous bromide in the

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The Reaction Between Hexaethyldistannane and Organic Haloid Derivatives

reactions discussed here, based on previously made assumptions (Ref. 2, the author), that reaction (2) is a catalytic one, just as the disproportionation of the hexaethyldiplumbane is (Ref. 1-3, the author). This assumption was confirmed by the thermostatic action of the mixture hexaethyldistannane and triethylstannous chloride, at 200-210°C (10 hours, molar ratio 1:2). Reaction (2) takes place more energetically in the presence of 3 moles of dichloroethylstannate and 2 moles of hexaethyldistannane (for a period of 1 h , at 200°C). The formed tetraethylstannate reacts with the dichloroethylstannate, forming triethylstannous chloride: $2(C_2H_5)_6Sn_2 + 3(C_2H_5)_2SnCl_2 \rightarrow 6(C_2H_5)_3SnCl + Sn$. (3). It is stressed that equation (2) describes only the final result. The reaction mechanism is thought to be complex from the following indications: during the reaction intensive wine-colored, presumably high-molecular compounds are formed, decomposing toward the end of the process, the stannous chloride is thought to play an important role in equation (2), usually identified when conducting the disproportionation in an excess of dichloroethylstannate. It was established that the $SnCl_2$ can cause changes not only in the hexaethyldistannane, but also in the more stable tetraalkyl

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A051/A026

The Reaction Between Hexaethyldistannane and Organic Haloid Derivatives

derivatives of the tin. The following reaction is given as an example of the thermostatic action of equimolar quantities of tetraethylstannate and $SnCl_2$ (for 10 hours at 230°C): $2(C_2H_5)_4Sn + 2SnCl_2 \longrightarrow 2(C_2H_5)_3SnCl + (C_2H_5)_2SnCl_2 +$ + Sn. (4) also taking place with the formation of dark-red colored intermediary compounds. Another fact proving the complexity of the reaction is given as being the fact that catalytic quantities of $(C_2H_5)_3SnCl$ and $(C_2H_5)_2$ $SnCl_2$ (2% of the weight of hexaethyldistannane) do not bring about its complete conversion according to equation (2). It is pointed out that the interaction of the hexaethyldiplumbane with an excess of triethyl lead chloride triethylstannous chloride or dichlorodiethylstannate, takes place quite differently. In this case the disproportionation reaction is completely suppressed by the complex oxidation- reduction process. In conclusion the authors state that investigations are still being continued in this field. There are 3 Soviet references.

ASSOCIATION: Gor'skovskiy gosudarstvennyy universitet im. N.I. Lobachevskogo (The Gor'kiy State University im. N.L. Lobachevskiy)

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APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DERI, M. (Budapest)

Investigations in the field of Seignettoelectric mixed titanates. Periodica polytechn chem 4 no.4:307-328 '60. (EEAI 10:5)

1. Institut fur Chemische Technologie der Technischen Universitat, Budapest.

(Lead titanates) (Dielectrics) (Barium titanates)
(Ferroelectric substances) (Magnesium titanates)
(Zinc titanate) (Strontium titanates)
(Iron titanantes) (Calcium titanates)
(Cadmium titanates)

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"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

88306

S/041/60/012/004/007/011
C111/C222

16.2600

AUTHOR: Derkach, P.Kh.

TITLE: On an Application of the Legendre Polynomials

PERIODICAL: Ukrainskiy matematicheskiy zhurnal, 1960, Vol. 12, No. 4, pp. 466 - 671

TEXT: Let $P_n = P_n(x)$ be the Legendre polynomial

$$P_{n+1}(x) = \frac{1}{2^{n+1}(n+1)!} \frac{d^{n+1}(x^2-1)^{n+1}}{dx^{n+1}}$$

At first the author proves that the system of functions

(5) $$\varphi_i(x) = P_{i+1} - \frac{2}{i(i+1)} P_i' \quad ; \quad i = 1,2,3...$$

where P_i' denotes the derivative of P_i with respect to x, is orthogonal on (-1, +1). Then the functions φ_i are used for the solution of

(8) $$y'' + k^2 y = 0$$

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C111/C222

On an Application of the Legendre Polynomials

(oscillations of a homogeneous string of the length 2 with fixed ends). Solving (8) according to Galerkin by putting $y = a_1 \varphi_1(x) + a_3 \varphi_3(x)$, then the frequency determinant has the form

$$(10) \qquad \Delta = \begin{vmatrix} \frac{12}{5}k^2 - 6 & -1 \\ -1, & \frac{5}{9}k^2 - \frac{85}{6} \end{vmatrix} = 0 \quad .$$

Making a three-termed arrangement for y then for the determination of the frequency one obtains

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"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

On an Application of the Legendre Polynomials

$$(11) \qquad \Delta = \begin{vmatrix} \frac{12}{5}k^2 - 6, & -1, & -\frac{2}{5} \\ -1, & \frac{5}{9}k^2 - \frac{85}{6}, & -\frac{17}{5} \\ -\frac{2}{5}, & -\frac{17}{5}, & \frac{56}{195}k^2 - \frac{308}{15} \end{vmatrix} = 0 .$$

Figure 3 shows the course of the function φ_i, figure 2 shows the course of the individual harmonics of the rigorous solution. The comparison shows that the forms of oscillations of the string are described well by the functions φ_i.

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"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

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C111/C222

On an Application of the Legendre Polynomials

Fig. 2

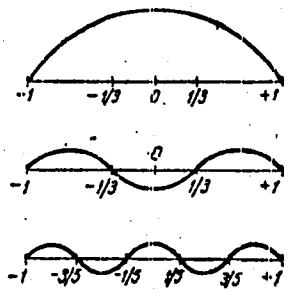
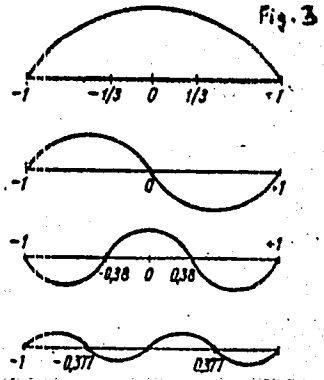


Fig. 3



There are 3 figures and 1 Soviet reference.

SUBMITTED: May 23, 1960

Card 4/4

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DERKACH, V.N., kand.med.nauk

Effectiveness of antibiotics in experimental staphylococcal intoxication under conditions of medicated sleep and the action of caffeine. Vrach.delo no.5:481-485 My '60. (MIRA 13:11)

1. Kafedra mikrobiologii (zav. - prof. B.L.Palant) i mikrobiologicheskiy otdel (zav. - prof. V.S.Derkach) Khar'kovskogo nauchno-issledovatel'skogo instituta vaktsin i syvorotok imeni I.I.Mechnikova.

(ANTIBIOTICS)
(STAPHYLOCOCCAL DISEASE)
(SLEEP)
(CAFFEINE)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

FEDORCHENKO, I.M.; PANAIOTI, I.I.; DERKACHEVA, G.M.; DZYKOVICH, I.Ya.; GORDAN', G.N.

Studies in the field of friction materials. Report No.2. Porosh. met. 5 no.9:65-68 S '65. (MIRA 18:9)

1. Institut problem materialovedeniya AN UkrSSR i Institut elektrosvarki imeni Patona AN UkrSSR.

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

FEDORCHENKO, I.M.; PANAIOTI, I.I.; DERKACHEVA, G.M.

Investigations in the field of friction materials. Poroshk. met. 5 no.5:54-57 My '65. (MIRA 18:5)

1. Institut problem materialovedeniya AN UkrSSR.

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

L 40841-66 EWP(e)/EWA(m)/EWP(t)/ETI/EWP(k) IJP(c) JD

ACC NR: AP6011240 (N) SOURCE CODE: UR/0413/66/000/006/0077/0077

INVENTOR: Fedorchenko, I. M. ; Panaioti, I. I. ; Derkacheva, G. M.

ORG: none

TITLE: Sintered friction material. Class 40, No. 179932 [announced by the Institute of Powder Metallurgy and Special Alloys AN UkrSSR (Institut metallokeramiki i spetssplavov AN UkrSSR)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 6, 1966, 77

TOPIC TAGS: sintered friction material, friction material

ABSTRACT: An Author Certificate has been issued for an iron-base sintered friction material containing silica and asbestos. To increase the heat resistance of the material, the following composition (%) is suggested: aluminum, 7—9; silica, 1—3; asbestos, 1—3; phosphorus, 0.7—1; manganese, silicon, nickel, chromium, sulfur, etc., up to 2; iron, the remainder. [Translation]

SUB CODE: 11, 20/ SUBM DATE: 04Dec63/ [LD]

Card 1/1 mcp UDC: 669.15' 715-192' :621.762

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

L 35618-65 EWT(m)/EWP(j)/T/EWP(t)/EWP(b) Pc-4 IJP(c) JD/JG/RM
ACCESSION NR: AP5006446 S/0051/65/018/003/0526/0529

AUTHOR: Bashulin, P. A.; Derkacheva, L. D.; Dmitanov, E. G.; Peregudov, G. V.; Prokhorov, A. M.; Sokolovskaya, A. I.; Shigorin, D. N. 45 43 B

TITLE: Investigation of stimulated emission in solutions of rare-earth chelates

SOURCE: Optika i spektroskopiya, v. 18, no. 3, 1965, 526-529

TOPIC TAGS: rare earth compound, chelate, stimulated emission, laser action, laser material

ABSTRACT: To check on the feasibility of using rare-earth chelates for stimulated emission, the authors investigated frozen solutions of the Eu-, Tb-, and Sm-dibenzoylmethane (DBM), Eu- and Tb-benzoylacetonate (BA), Eu-(ethylenediamine-salicylaldehyde) (EDSA), Eu- and Sm-nitrosalicylaldehyde, a Eu- and Sm-picric acid, Eu-, Tb-, and Sm-acetylacetonate, Tb-vinyl salicylate, Eu-salicylaldehyde, and Eu-(di-methyl benzoate) complexes. Only the first six of these compounds withstood the action of strong light pulses and could be obtained in solution of required concentration (~ 10^{-2} mole/liter). The solvents were various mixtures and pure substances forming glasslike matrices at low temperatures. The absorption and luminescence

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"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

L 35618-65
ACCESSION NR: AP5006446

2

spectra of the indicated six compounds were investigated. Typical data on the frequencies and relative intensities at the maxima of the most intense luminescence lines are listed in Table 1 of the Enclosure. The line widths given are for a temperature -150C, when the intensity of luminescence increases noticeably. The coefficients of negative absorption were estimated from the absolute luminescence brightness of the investigated substance by comparing the luminescence intensity with the radiation intensity of a source with known absolute brightness at the same wavelength. The results are listed in Table 2 of the Enclosure. It is pointed out that the data depend on various experimental conditions. In the case of the complex Eu(DA)$_3$, a spiked generation mode could be attained with a 1200 Joule pump power. "The authors are grateful to V. V. Kurnetsova and L. A. Novikova for synthesis and supply of some of the investigated compounds." Orig. art. has: 4 figures, 1 formula, and 2 tables. [02]

ASSOCIATION: none

SUBMITTED: 13Apr64 ENCL: 01 SUB CODE: EC, IC

NO REF SOV: 002 OTHER: 002 ATD PRESS: 3220

Card 2/3

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

L 35618-65

ACCESSION NR: AP5006446

ENCLOSURE: 01

Table 1. Relative intensities of stimulated emission lines of rare-earth chelates

Substance	λ, Å	I, rel. un	Δν, cm⁻¹
Eu (DIM)$_3$	6128	95	21
	6154	100	30
	6171	88	—
Eu (BA)$_3$	6131	100	21
	6150	80	—
Eu (EDSA)$_2$	6140	54	—
	6189	100	40
	6190	50	—
Tb (DBM)$_3$	5420	—	11
Tb (BA)$_3$	5430	100	28
	5438	70	—
	5820	31	—
Sm (DBM)$_3$	6454	—	57

Table 2. Negative absorption coefficients of rare-earth chelate lines

Substance	λ, Å	α, mole/l	$\beta(K)$, cm⁻¹
Eu (DBM)$_3$	6154	10^{-3}	$1 \cdot 10^{-3}$
Eu (BA)$_3$	6131	10^{-3}	$8 \cdot 10^{-4}$
Eu (EDSA)$_2$	6189	10^{-4}	$1 \cdot 10^{-4}$
Tb (DBM)$_3$	5420	10^{-4}	$8 \cdot 10^{-5}$
Tb (BA)$_3$	5430	10^{-3}	$2 \cdot 10^{-4}$
Sm (DBM)$_3$	6454	10^{-3}	$2 \cdot 10^{-4}$

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"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DERKACHEVA, L. D.

DERKACHEVA, L. D. : "Investigation of concentration effects in solutions of dyes of the cyanine series". Moscow, 1955. Moscow State U imeni M. V. Lomonosov, Physics Faculty. (Dissertations for the degree of Candidate of Physicomathematical Sciences.)

SO: Knizhnaya Letopis' No. 50. 10 December 1955. Moscow

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

OZ-R Kacheva, L.D.

USSR/ Optics

K

Abs Jour: Referat Zhur-Fizika, 1957, No 4, 10408

Author : Derkacheva, L.D.
Inst : Moscow State University, USSR
Title : Concentration Effects in Solutions of Dyes of the Cyanine Series.

Orig Pub: Izv. AN SSSR, ser. fiz., 1956, 20, No 4, 410-418

Abstract: An investigation was made of the dependence of the association of molecules of the cyanine dyes and their structure and properties of the solvent. It is shown that as the dielectric constant of the solvent. It is shown that as the dielectric constant of the solvent [ethyl alcohol. (ε = 27.8) glycerine (ε = 56.2) and water (ε = 81)] increases, there is an increase in the association of the molecules, which manifests itself in the change in the absorption spectra and fluorescence. This fact is explained by the reduction in the Coulomb repulsion between like positively charged ions of the dye with increase in the dielectric constant medium. It is established that

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Abs Jour: Referat Zhur-Fizika, 1957, No 4, 10408

the association becomes also reinforced when the dimensions of the π -electron cloud of the molecule increases, i.e., the association depends on the interaction between the π -electron shells of the molecules.

Card : 2/2

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"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

AUTHOR: Derkacheva, L.D. SOV/51-5-5-8/23

TITLE: Investigation of the Effect of the Position of Substituents on the Intensities and Frequencies of Absorption by Certain Naphthalene Derivatives (Issledovaniye vliyaniya polozheniya zamestiteley na intensivnost' i chastoty pogloshcheniya nekotorykh proizvodnykh naftalina)

PERIODICAL: Optika i Spektroskopiya, 1958, Vol 5, Nr 5, pp 542-552 (USSR)

ABSTRACT: Absorption spectra of ten oxy-derivatives and ten acetoacetoxy-derivatives of naphthalene were obtained. Doubly distilled absolute ethyl alcohol, dichloroethane, amyl acetate were used as solvents; the solution concentrations were from 3 to 5 x 10^{-4} g/cm^3. Measurements were made on a SF-4 spectrophotometer at room temperature. The absorption spectra of solutions of naphthalene and its oxy-derivatives in ethyl alcohol are given in Fig 2. The absorption spectra of the acetoacetoxy-derivatives of naphthalene (also in ethyl alcohol) are given in Fig 6. The structural formulae of the twenty naphthalene derivatives studied are given near the appropriate spectra in Figs 2 and 6. The coordinate axes in Figs 2 and 6 represent the absorption coefficient α in cm^2/g and the wavelength λ in mμ. Measurements of the intensities and frequency shifts, compared with naphthalene, are

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"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

Investigation of the Effect of the Position of Substituents on the Intensities and Frequencies of Absorption by Certain Naphthalene Derivatives

interpreted in terms of "spectroscopic moments" (Refs 1-3). The author compares values calculated, using the spectroscopic moments theory, with the experimental values of the molar coefficient of extinction and the electron transition frequency. This comparison is given graphically in Figs 3-5 for three electron transitions in the oxy-derivatives of naphthalene. In Figs 7-9 a similar comparison is made for the acetoacetoxy-derivatives. The three electron transitions referred to above occur in naphthalene at : (I) 31700 cm^{-1}, (II) 34900 cm^{-1}, and (III) 45250 cm^{-1}. The calculated values in Figs 3-5, 7-9 are shown by dashed curves, while the experimental values are shown as continuous lines. The following conclusions are made by the author. (1) The absorption spectra of the electron transitions I and II of oxy-derivatives and acetoacetoxy-derivatives of naphthalene are shifted towards longer wavelengths and are more intense compared with the naphthalene spectrum. (2) This shift and intensity increase are satisfactorily explained by the Sklar--Förster theory of spectroscopic moments. (3) The vector addition of

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"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

Investigation of the Effect of the Position of Substituents on the Intensities and Frequencies of Absorption by Certain Naphthalene Derivatives

spectroscopic moments may be applied in calculations of the intensities and frequencies of poly-derivatives of aromatics in the case of the electron transitions I and II. Such an addition cannot be used for moments of the III transition. The authors thank V.L. Levshin for advice and V.V. Perekalin for supply of the naphthalene derivatives. There are 9 figures and 8 references, 5 of which are American and 1 German.

SUBMITTED: December 16, 1957

Card 3/3 1. Naphthalenes--Spectra 2. Naphthalenes--Electron transistions
3. Spectrophotometers--Performance

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DERKACHEVA, L.D.

24(8) PHASE I BOOK EXPLOITATION SOV/2809

Akademiya nauk SSSR. Otdeleniye khimicheskikh nauk

Termodinamika i stroyeniye rastvorov; trudy soveshchaniya... (Thermodynamics and Structure of Solutions; Transactions of the Conference Held January 27-30, 1958) Moscow, Izd-vo AN SSSR, 1959. 295 p. 3,000 copies printed.

Ed.: M. I. Shakhparonov, Doctor of Chemical Sciences; Ed. of Publishing House: N. O. Yegorov; Tech. Ed.: T. V. Polyakova.

PURPOSE: This book is intended for physicists, chemists, and chemical engineers.

COVERAGE: This collection of papers was originally presented at the Conference on Thermodynamics and Structure of Solutions sponsored by the Section of Chemical Sciences of the Academy of Sciences, USSR, and the Department of Chemistry of Moscow State University, and held in Moscow on January 27-30, 1958. Officers of the conference are listed in the Foreword. A list of other reports also read at the conference, but not included in this book, are given. Among the problems treated in this work are: electrolytic solutions, ultrasonic measurement, dielectric and thermodynamic properties of various mixtures, spectroscopic analysis, etc. References accompany individual articles.

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DERKACHEVA, L.D.; ZHEVANDROV, N.D.; KHAN-MAGOMETOVA, Sh.D.

A fluorescence method for determining small quantities of bacteria [with summary in English]. Biofizika 4 no.1:117-119 Ja '59. (MIRA 12:1)

1. Institut biologicheskoy fiziki AN SSSR, Moskva i Fizicheskiy institut im. P.N. Lebedeva AN SSSR, Moskva.

(BACTERIA,
determ. of small quantities by luminescent method (Rus))
(LUMINESCENCE,
luminescent method of determ. of small quantities of bact. (Rus))

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

S/051/60/009/002/010/013/XX
E201/E491

AUTHOR: Derkacheva, L.D.

TITLE: Dependence of Fluorescence of Naphthalene Derivatives on the Concentration of Hydrogen Ions in a Solution

PERIODICAL: Optika i spektroskopiya, 1960, Vol.9, No.2, pp.209-214

TEXT: The author recorded the absorption and luminescence spectra of nine derivatives of naphthalene in solution at various values of the solution pH. There derivatives were: β-naphthol, α-naphthol, 1,2-naphthol, 1,5-naphthol, 1,7-naphthol, 1,8-naphthol, 2,3-naphthol, 2,6-naphthol, 2,7-naphthol. The absorption and luminescence spectra were recorded with a spectrophotometer СФ-4 (SF-4). A photomultiplier ФЭУ-18 (FEU-18) was used as a receiver; the photomultiplier signal was amplified and recorded automatically with a potentiometer ЭППВ-51 (EPPV-51). A mercury lamp СВДШ-1000 (SVDSh-1000) was used as a source. In alkaline solutions (pH = 13) naphthols were in ionic form and their absorption and luminescence spectra were shifted considerably towards longer wavelengths; in most of them the structure disappeared and the spectra were broadened. The author determined also the ratios of the relative luminescence yield of undissociated molecules and ions as a function of pH (Figs.1 and 2). From these ratios the author deduced the

Card 1/2

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

S/051/60/009/002/010/013/XX
E201/E491

Dependence of Fluorescence of Naphthalene Derivatives on the Concentration of Hydrogen Ions in a Solution

dissociation constants in the ground and excited states, as well as the rates of protolytic reactions. Fig.4 gives the dependence of the dissociation constants on the rate constants of protolytic reaction. Displacements of the zero electron transition on dissociation were used to find the difference between the dissociation constants in ground and excited states. Fig.3 shows schematically the dissociation energies of a molecule in the ground and excited states, as well as excited and ground-state energies of ions. There are 4 figures, 3 tables and 7 references: 1 Soviet, 5 German and 1 Japanese.

SUBMITTED: November 23, 1959

Card 2/2

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"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

S/051/62/012/002/020/020
E032/E514

AUTHOR: Derkacheva, L.D.

TITLE: On the symmetry of the third excited state of naphthalene

PERIODICAL: Optika i spektroskopiya, v.12, no.2, 1962, 329-330

TEXT: The authors report the short-wave absorption (190-260 mμ) of naphthalene and eight of its dioxy derivatives. Heptane and ethyl alcohol were used as the solvents. The spectrum of naphthalene in this region consists of a single absorption band with a maximum at 221.5 mμ. The derivatives may have either one or two bands. Analysis of these spectra lead the author to the conclusion that the third excited state of naphthalene has the B_{1u} symmetry. Transitions from the ground fully symmetric state into a state with this symmetry should have longitudinal polarization (along the z-axis), which is in accordance with theoretical calculations (Ref.1: J. R. Platt. J.Chem.Phys., 17, 484, 1949; Ref.9: C. A. Coulson. Proc. Phys. Soc., 60, 257, 1948). There are 2 figures.

SUBMITTED: April 8, 1961
Card 1/1

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

L 10752-63 EWP(j)/EWT(l)/EWT(a)/BDS--AFFTC/ASD/SSD--Pc-4--GG/RM

ACCESSION NR: AP3003426 S/0051/63/015/001/0138/0139

61

AUTHOR: Derkacheva, L. D.

TITLE: On negative absorption by some organic compounds

SOURCE: Optika i spektroskopiya, v. 15, no. 1, 1963, 138-139

TOPIC TAGS: liquid laser, organic laser, negative absorption, naphthol

ABSTRACT: A theoretical study shows that it is possible to develop an organic liquid laser by using solutions of organic substances, such as naphthols and acridines, which in the excited state show a strong shift of the dissociation constant in relation to the ground state. A specific example is calculated for a water solution of beta-naphthol (10^{19} molecules per cm^3) showing that population inversion and laser action can be established at a pumping energy of 0.01 Joule delivered in 10^{-8} sec, which is quite within the capacities of modern flash lamps. The pumping source

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L 10752-63
ACCESSION NR: AP3003426

must be selected to include the appropriate absorption spectrum. The condition of nonabsorption of induced emission by excited molecules, which is required for a population inversion to be established, is fulfilled in beta-naphthol, because transition from the first to the third excited electron level is forbidden. Orig. art. has: 4 formulas.

ASSOCIATION: none

SUBMITTED: 04Apr63 DATE ACQ: 30Jul63 ENCL: 00

SUB CODE: 00 NO REF SOV: 002. OTHER: 005

Card 2/2

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

BAZHULIN, P.A., doktor fiz.-matem.nauk; DERKACHEVA, L.D., kand.fiz.-matem.nauk

Congress on quantum radio physics. Vest. AN SSSR 33 no.8:91-93 Ag '63. (MIRA 16:8)

(Quantum theory) (Radio)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DERKACHEVA, Z.N.; KIR'YAKOV, M.A.

Case of free autoplasty with a "sieve" skin graft. Ortop. travm.i protez. 21 no.2:62-63 F '60. (MIRA 13:12)
(SKIN GRAFTING)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

BUGAYEV, M.[Buhaiov, M.]; DERKACHOVA, O.

A strong building materials production base guarantees rhythmic construction. Sil'. bud. 12 no.10:16-17 O '62. (MIRA 15:10)

1. Zamestitel' predsedatelya soveta Volinskogo oblastnogo mezhkolkhoznogo stroitel'stva (for Bugayev).

(Building materials industry)
(Volyn' Province—Collective farms—Interfarm cooperation)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DERKACZ, Zbigniew (Wroclaw)

The Dzialoszyn Cement Plant. Przegl budowl i bud mieszk 34 no.8:447-451 Ag '62.

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DERKACZOWA, M.

Preparations of decoctions from radix ipecacuanhae, semen strychni, and cortex cinchonae, by means of the accelerated evacolation method. Z. Olszewski and M. Derkaczowa. *Acta Polon. Pharm.* 13, 147–53 (1956) (English summary).—Percolation, evacolation (filtration under diminished pressure), and accelerated evacolation (24 hr. lixiviation by means of the Kessler app.) were compared as methods for extg. radix ipecacuanhae, semen strychni, and cortex cinchonae. The methods took less time and resulted in more thorough leaching out of active substances in the order given. Decoctions or dry extn. were obtained from the extd. liquids. P. Dreyfuss

2

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DERKANOSOV, N. I.

USSR/Chemical Technology - Chemical Products and Their Application. Fermentation Industry. I-12

Abs Jour : Ref Zhur - Khimiya, No 1, 1958, 2814

Author : Derkanosov, N.I., Osipov, M.F.
Inst :
Title : Hermetic Sealing of Yeast-Growing Apparatus.

Orig Pub : Khlebopek. i konditersk. prom-st;, 1957, No 7, 42-44

Abstract : Description of the work on hermetic sealing of the basic yeast growing apparatus, conducted at the Voronezh yeast plant, in order to carry out the process of yeast propagation under sterile conditions.

Card 1/1

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

ACC NR: AP7000334 (A) SOURCE CODE: UR/0413/66/000/022/0085/0085

INVENTOR: Kosach, A. V.; Derkanosov, Yu. A.; Iyevin'sh, Ya. K.; Rozenberg, Ya. Ya.

ORG: none

TITLE: Remote-control cable linkage of the hydraulic distributor of a tractor-mounted loader. Class 35, No. 188639

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 22, 1966, 85

TOPIC TAGS: tractor, agricultural machinery, tractor mounted implement, REMOTE CONTROL SYSTEM

ABSTRACT: An Author's Certificate has been issued for a remote-control cable linkage for the hydraulic distributor of a tractor-mounted loader having a hinged arm atop a king post. The distributor levers are rigidly fixed to the ends of the cables, which pass around the blocks located on the distributor support and through lead-ins having adjustable tension screws. The cables leading to the control pedestal are sheathed in flexible sleeves fastened to the rotary disks of the control-pedestal levers. This design improves the control maneuverability of the loader on various cab-type tractors. Orig. art. has: 2 figures.

SUB CODE: 13/ SUBM DATE: 24Jul63/

Card. 1/1 UDC: 621.869.447-82-519

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DERKASOV, G.M., inzh.

Study of rubber shock absorbers for freight car trucks. Vest. TSNII MPS 18 no.5:40-42 Ag '59. (MIRA 13:1)
(Railroads--Freight cars)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DERKASOV, G.M., inzh.

Results of the testing of rubber-metal springs. Vest. TSNII MPS 24 no.5:38-41 '65. (MIRA 18:9)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DERKASOV, G.M., inzh.; GRACHEVA, L.O., kand.tekhn.nauk

Modernization of the spring suspension of the freight car truck. (MIRA 14:12)
Vest. TSNII MPS 20 no.7:44-46 '61.
(Car trucks (Railroads))

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

BLINOVA, Z.A.; VINNITSKIY, L.Ye.; DERKASOV, G.M.; FILIPPOVA, L.S., red.; VASIL'YEVA, N.N., tekhn. red.

[Shock absorbers with rubber parts for railroad rolling stock] Amortizatory s rezinovymi detaliami dlia podvizhnogo sostava. Moskva, Transzheldorizdat, 1962. 22 p. (MIRA 15:9)
(Shock absorbers) (Railroads—Cars)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DERKEMBAYEV, N.

Toguz-Torouskiy District, Tien Shan Province; concise economic and geographical study. Izv. AN Kir. SSR. Ser. est. i tekh. nauk 3 no.5:55-68 '61. (MIRA 15:9)
(Toguz-Torouskiy District—Economic geography)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DERKEMBAYEV, N.

Kochkorka District, Tein Shan Province; concise economic and geographical study. Izv. AN Kir. SSR. Ser. est i tekh. nauk 3 no.5:69-79 '61. (MIRA 15:9)
(Kochkorka District—Economic geography)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DESI, Illes; SIMON, Gyorgy; SASVARI, Karoly; DEMKAY, Eva; Technikai munkatars: TOTSER, Rozalia

Effect of cardiopathogenic diets on the spasm threshold in electric shock. Kiserl. orvostud. 16 no.4:337-343 Ag '64.

1. Budapesti Orvostudomanyi Egyetem Korelettani Intezete.

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DERKIC, Boris, ing. (Bor, Dure Dakovica 2-7)

The solution of the problem of classification and catching of waste balls and broken bars from the flotation mill. Tehnika Jug 17 no.3:484-488 '62.

1. Upravnik flotacije Rudarsko-topionicarskog bazena u Boru.

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DERKIC, Boris, inz. (Tuzla, Rudarska 172)

Building of a dam on the flotation dump of the Bor Mines. Tehhnika Jug 17 no.12: Supple. Rudarstvo metalurg 13 no.12: 2281-2283 D '62.

1. Upravnik pogona flotacije u Boru.

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DERKO, H.

B-5

Poland/Physical Chem. Crystals

Abs Jour : Referat Zhur - Khimiya No 7, 1957, 22068

Author : Derko
Inst : Not given
Title : The influence of conditions of precipitation upon the structure of alkali earth metal carbonates.

Orig Pub : (Wplyw war kow strecania na strukture weglanow ziem alkaliczynych. Derko halina). Elektronika, 1955, 1, No 1-2, 39-48 (Polish)

Abstract:: This is a survey of the relation of the structure of alkali earth metal carbonates (used as a base in preparing the emissive capabilities of oxide cathodes depending on them) to the temperature of precipitation of carbonates and to the concentration of initial salts, the composition of components being fixed at a given percentage. It was discovered that the most regular crystalline structure of mixed carbonates (Ba, Sr.) and the highest emissive capacity in electronic tubes are found in the composition of double-carbonates of 50:50 mol. % and at the precipitation temperature of 92°. The best conditions of precipitation of carbonates (Ba, Sr, Ca) at the

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APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

41767
S/194/62/000/008/036/100
D295/D308

AUTHOR: Derko, Halina

TITLE: Investigation of binders used in emission pastes

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 8, 1962, abstract 8-3-36 ya (Przegl. elektron., v. 2, no. 8, 1961, 498 - 503 [Pol.])

TEXT: The process of activation of an oxide cathode depends considerably on the composition and concentration of the binder used in preparing the carbonate paste. In connection with this, a comparative investigation of the decomposition process of carbonate pastes with various binders has been carried out. The method of investigation was based on measuring the total pressure of the gases evolved in the heating process of the paste as a function of temperature; this measurement enables one to observe the chemical processes occurring in the paste under high-vacuum conditions at high temperatures (the decomposition of the binder and of carbonates of alkaline-earth metals). Two types of binders were investigated, one based on nitrocellulose and the other based on polymers of methyl

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"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

Investigation of binders used in ... S/194/62/000/008/036/100
D295/D308

acrylate with various types of solvents. The results of the investigation are shown in the form of decomposition curves both of the binders themselves and of the emission pastes deposited on cathode bases of various design (a sarong type and a lamellar cathode). The data obtained show that binders with methyl acrylate decompose at higher temperatures. The analysis of the curves enables one to establish a critical temperature and an optimum rate of temperature increase for a given pumping speed. 3 references. (Przemysłowy Inst. Elektroniki, Poland.) [Abstracter's note: Complete translation.]

Card 2/2

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

45766

S/194/62/000/012/069/101
D295/D308

26.2012

AUTHORS: Taczanowski, Andrzej, Derko, Halina and Źbikowski, Antoni

TITLE: The influence of oxide cathode bombardment by Ar ions on its noise

PERIODICAL: Referativnyy zhurnal, Avtomatika i radioelektronika, no. 12, 1962, 12, abstract 12 Zh 78 (Prace przemysł. inst. elektroniki, v. 2, no. 1, 1961, 71-74 (Pol.))

TEXT: Results are given of an experimental investigation of the effect of the bombardment of an oxide cathode by Ar ions on the emission current I_e and on the equivalent noise current I_n of a diode. I_n is measured by the comparison method at a frequency of 4 Mc/s. The experiment is carried out at an Ar pressure of 2×10^{-5} mm Hg, bombardment voltage of 392 V and bombardment currents of 0.2 ($\sim$25 $\mu a/cm^2$) and 1.2 μa. It was found that I_n decreases with increasing I_e. When bombardment is prolonged for 6 hours, a slow

Card 1/2

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"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

The influence of ...

S/194/62/000/012/069/101
D295/D308

increase of I_n is observed for a constant I_e. It is shown that ion bombardment affects cathode noise in view of the variation of the emission layer structure. [Abstracter's note: Complete translation.]

Card 2/2

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

S/275/63/000/001/007/035
D469/D308

AUTHOR: Derko, Halina

TITLE: Simplified method for obtaining cathodes impregnated with nickel

PERIODICAL: Referativnyy zhurnal, Elektronika i yeye primeneniye, no. 1, 1963, 16, abstract 1A 76 (Prace przemysł. inst. elektroniki, v. 2, no. 2, 1961, 11-18 (Pol.; summaries in Eng. and Rus.))

TEXT: The initial substance used in this method is a nickel powder with grain diameter <32 μ, containing a trace of silicon (0.017%) and magnesium (0.005%). A tungsten powder (1 to 3%), with grain diameter up to 10 μ, is added for activation. The powder is etched in acetic acid and then annealed in medium of dry hydrogen at 800°C and subsequently at 1050°C. The cathodes are formed in appropriately constructed molds at the pressure of 2 ton/cm^2; the porosity thus obtained is 38 to 42%. To increase the porosity, one adds NH_4HCO_3 to the nickel powder. Compressed specimens are caked in a

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"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

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D469/D308

Simplified method for ...

hydrogen atmosphere at 1100°C during 30 minutes. The most crucial stage of technological preparation is the impregnation of cores. The first method consists of saturation of porous nickel cores with barium-strontium-calcium acetates; these are then carbonized by submerging them in a saturated solution of ammonium carbonate. The second method consists of introducing barium hydrate into the pores of a core and so heating them in an oven at temperatures near to the melting temperature of the hydrate. The coefficient of pore filling is several times higher in the second method than in the first. The technocological process consists of only two operations: impregnation with a hydrate and creation of carbonate by submerging a specimen in a solution of ammonium carbonate. A simplified version of the second method is described in which only one operation occurs, namely the impregnation of cores with barium, strontium and calcium hydrates. The latter are obtained from a mixture of carbonates heated in a muffle oven in an atmosphere of humid hydrogen. The impregnation can also be made in hydrogen at the temperature of 400°C. The investigation of experimental cathodes has shown that, during initial times of operation, they discharge

Card 2/3

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"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

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I469/D308

Simplified method for ...

gases considerably. The emission was stabilized during 50 to 100 hours while activation took place at low incandescence temperatures and simultaneous current output; a stabilized emission of 0.6 to 0.8 A/cm^2 is maintained during 3 to 4 hours at a cathode temperature of 830°C. 8 references.

ASSOCIATION: Przemysłowy Inst. Elektroniki, Poland
[Abstracter's note: Complete translation.]

Card 3/3

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

CIESLIK, J.; DERKO, H.; JONCZYK, M.

Testing the insulating properties of Alundum of various origins. Przem inst elektron prace 5 no.1:43-51 '64.

1. Department of Emission Testing of the Industrial Institute of Electronics and Electric Lamp Manufacture, Warsaw. Submitted February 5, 1964.

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DERKO, H.; MORAWSKA, Z.

Measurements of the rate of evaporation of impregnated tungsten cathodes. Przem inst elektron prace 5 no.2:115-124 '64.

1. Department of Emission Testing of the Industrial Institute of Electronics, Warsaw. Submitted May 12, 1964.

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DERKOVA, E., inz.

Desalting of water. Vodni hosp 13 no.12:448-449 '63.

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DERKOVIC, B.

Some problems of training soldiers in handling the M52 portable smoke screen. p. 822.

VOJNO-TEHNICKI GLASNIK. Beograd, Yugoslavia. Vol. 3, no. 11, Nov. 1955.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 9, Sept. 1959.

Uncl.

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DERKOVIC, B.

"Manufacture of chambers with warm air for decontamination."

p. 840 (Vojno-Tehnicki Glasnik) Vol. 5, no. 11, Nov. 1957
Belgrade, Yugoslavia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4, April 1958

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DERKOVIC, Branislav, geolog.

Geologic composition and tectonic structure of the Ulcinj region with particular reference to the hydrogeologic problems of the region. Vodoprivreda Jug 3 no.11:35-47 '60. (EEAI 10:6)
(Montanegro--Geology)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DERKOVIC, Branislav

Bituminous rocks of Montenegro. Glas Prir. muz A 14/15:281-299 '61.

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DERKOVIC, Branislav

Hydrogeologic characteristics of the Tarevcica River, and possibilities of constructing a reservoir. Geol glas BiH 7: 175-184 '63.

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DERKOVIC, Branislav (Sarajevo)

Some subsidences along the Montenegrin littoral. Gradevinar 15 no.10:352-361 0'63.

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DERKOVIC, B.

Relations of the surface and underground layers in the Trebinje-Grahovo area. Geol glas BiH 9:155-162 '64.

1. Submitted July 2, 1964.

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

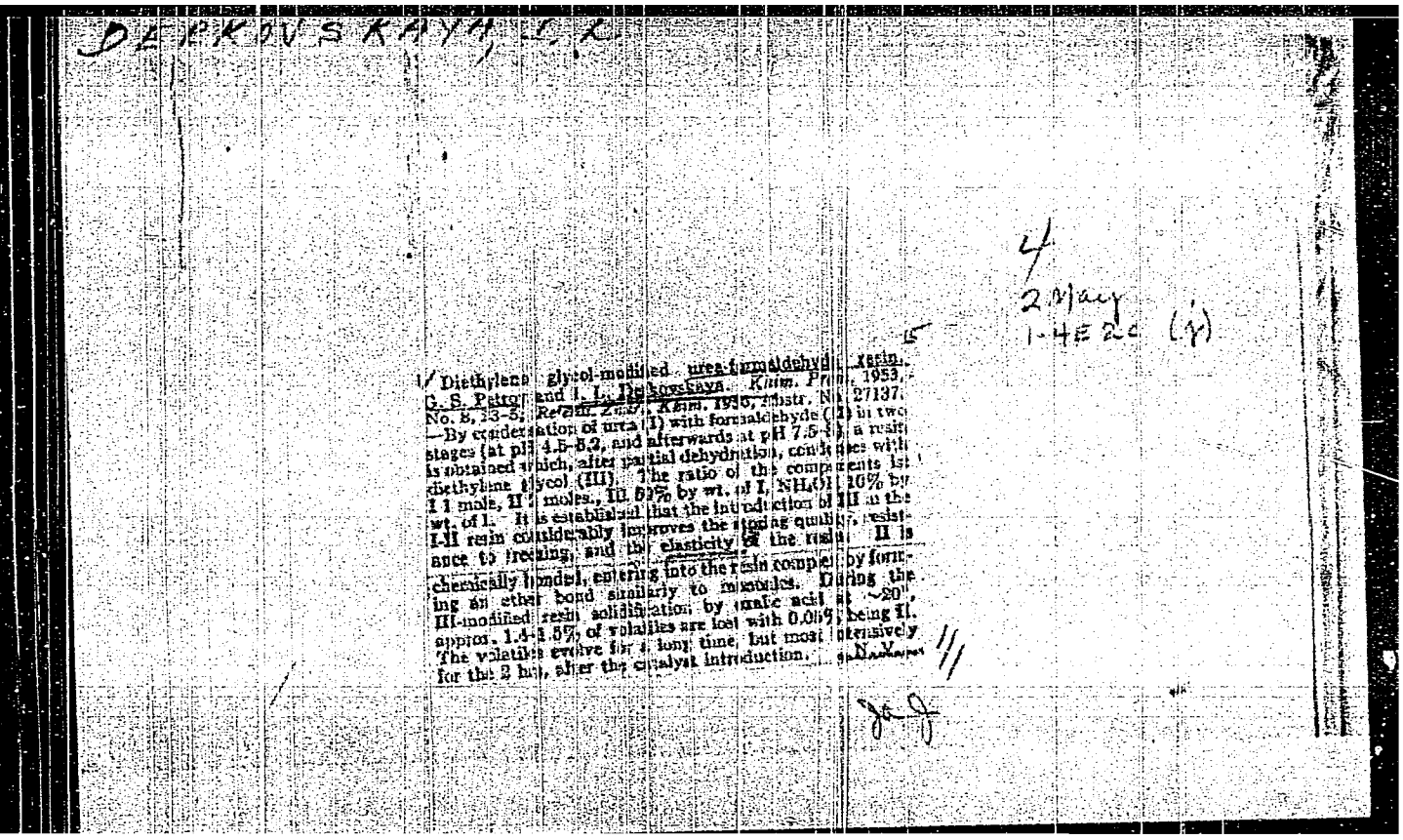
DEMKOVSKAYA, I.

"Preparation and Investigation of Adhesive Urea Formaldehyde Resin Combined With Diethylene Glycol." Cand Tech Sci, Moscow Chemicotechnological Inst, Moscow, 1953. (RZhKhim No 7 Apr 55)

SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (16)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021



DERKOVSKAYA, L. K.

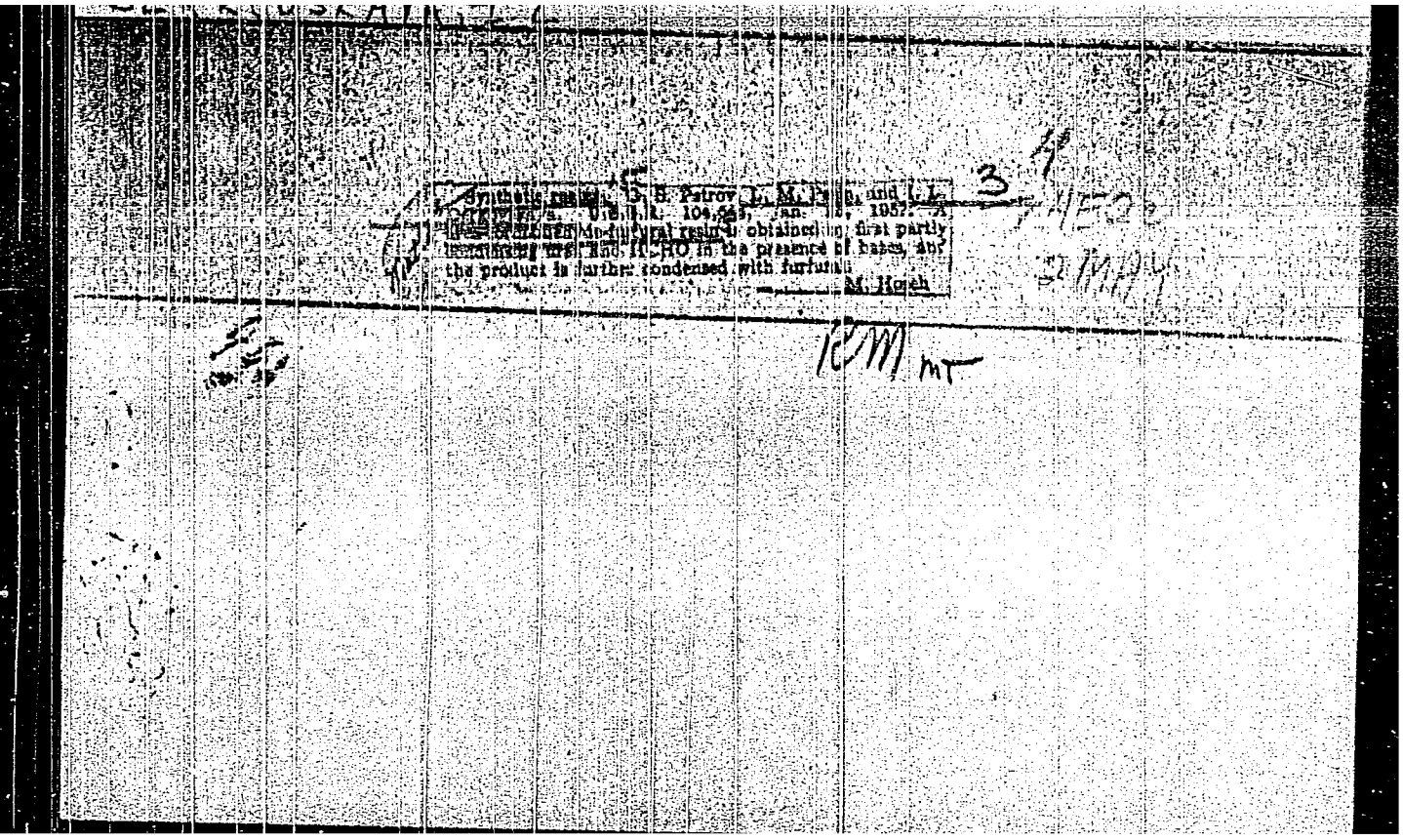
4
2 May
1-4E 2c (4)

1/ Diethylene glycol-modified urea-formaldehyd... Khim. Pr... 1953, No. 5, 33-5; Referat. Zhur., Khim. 1956, Abstr. No. 27137. G. S. Petrov and I. L. Dekovskaya.

—By condensation of urea (I) with formaldehyde (II) in two stages (at pH 4.5-5.2, and afterwards at pH 7.5-8) a resin is obtained which, after partial dehydration, combines with diethylene glycol (III). The ratio of the components is I 1 mole, II ... moles., III 5-9% by wt. of I, NH_4Cl 10% by wt. of I. It is established that the introduction of III in the I-II resin considerably improves the storing quality, resistance to freezing, and the elasticity of the resin. II is chemically bonded, entering into the resin complex by forming an ether bond similarly to monoalc. During the III-modified resin solidification, by maleic acid at ~20°, approx. 1.4-1.5% of volatiles are lost with 0.0[illegible]% being II. The volatiles evolve for a long time, but most intensively for the 2 hr. after the catalyst introduction.

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021



APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

Synthetic adhesives. O. S. Petrov, L. M. Fein, [illegible] M. I. Garbar, R. M. Adaskin, and A. G. [illegible]. U.S.S.R. 115,729, May 25, 1957. Synthetic adhesives are made from urea-HCHO condensation products to which are added polyhydroxy alcs. The stability in storage, mech. strength, and water-resistance of the adhesives are improved by addn. of xylitol during the condensation reaction. M. Hosch

7E2d
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APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

PETROV, G.S., doktor tekhnicheskikh nauk; DERKOVSKAYA, I.L., kandidat tekhnicheskikh nauk; PESIN, L.M.

Carbamide glues for wood gluing. Der. prom. 6 no.3:14-16 Mr '57. (MLRA 10:5)

1. Nauchno-issledovatel'skiy i proyektnyy institut plastmass. (Urea)

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TITLE: Hardener for the Foundry Production Based on Synthetic Carbamide Resins (Krepiteli na osnove sinteticheskikh karbamidnykh smol dlya liteynogo proizvodstva)

PERIODICAL: Khimicheskaya Promyshlennost', 1958, Nr 3, pp 27-29 (USSR)

ABSTRACT: In order to remove the disadvantages of the hardeners on the basis of urea formaldehyde resins as used hitherto, a mixture with a concentrate of a sulfite-alcohol elutriating was worked out in the NIIPM in co-operation with the TsNIITmash, with condensation experiments at different pH values. It was observed that the condensation is to take place at pH = 7.5 - 8.5. An optimum recipe is given as well as the preparation technique and an analysis table. A variation in the duration of the condensation of this hardener (MSB) showed only a remarkable effect on the viscosity. The experiments on the effect of low temperatures -30°, -35° showed that at a restoration of the room temperature a liquefaction of the hardener takes place again. Physico-mechanical tests which were made in the TsNIITmash according to GOST 2138-51 as well as experiments in dif-

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ferent machine building plants proved that the hardener MSB shows some advantages compared to the oil hardener 4 GU as used hitherto. A consumption of oil and technical fats is avoided, the drying is accelerated by 25-40% and reduced to a temperature of 30-40°, and thus the removal of the cores is simplified. On the other hand the production of the MSB hardener is more simple and cheaper than that of the earlier developed MF, its stability being inferior by 40-50%. There are 5 tables, and 3 references, 2 of which are Soviet.

1. Molding materials--Hardening 2. Urea-formaldehyde resins --Effectiveness 3. Molding materials--Preparation

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